

**Wisconsin Department of Natural Resources
Cooperating Technical Partner
Mapping Activity Statement**

Agreement WDNR-2003-07 – Redelineation of Floodplain Boundaries Using Updated Topographic Data, Brown County

In accordance with the Cooperating Technical Partner (CTP) Memorandum of Agreement dated September 14, 2001, between the Wisconsin Department of Natural Resources and the Federal Emergency Management Agency (FEMA), Mapping Activity Statement WDNR-2003-07 is as follows:

- 1. Statement Objective and Scope:** The objective of this Mapping Activity is to redelineate detailed floodplain boundaries in Brown County including incorporated communities. Delineations will be of the 1% and 0.2% annual chance floodplains and floodways for the following flooding sources: See Table 1 (attached). The Flood Profiles and Floodway Data Tables from the effective FIS studies will be used to produce these delineations. The WDNR will delineate the floodplain boundaries for the 1% and 0.2 % annual chance recurrence intervals and the regulatory floodway boundaries on a digital work map based on Brown County's 2-foot contour equivalent topographic data. If the new topography does not reflect the same hydraulic characteristics as in the effective study, the WDNR will evaluate the possible effect of the discrepancies on the BFE and regulatory floodway and provide a report to the FEMA Regional Project Officer that summarizes these findings and makes recommendation.
- 2. Period of Performance:** The period of performance will be in accordance with Cooperative Agreement Article II. It is anticipated that activities in this MAS will start October 1, 2003 and end March 31, 2004.
- 3. Funding/Cost-Sharing:**
- 4. Standards:** The following standards and documents are relevant to this Mapping Activity:
 - Topographic mapping used to delineate floodplains and floodways will be of adequate scale and topographic definition to provide reasonable accuracy. Planimetric features will be compatible with the base map (with respect to horizontal accuracy) selected by FEMA for Digital FIRM production. Topographic mapping taken from aerial photogrammetry or surveys will comply with the requirements of Appendix A of *Guidelines and Specifications for Flood Hazard Mapping Partners*, February 2002. Appendix A can be found at www.fema.gov/mit/tsd/dl_cgs.htm

- If the new topography does not reflect the same hydraulic characteristics as in the effective study, WDNR will evaluate the possible effect of the discrepancies on the BFE and regulatory floodway, and provide a report to the FEMA Regional Project Officer that summarizes these findings and makes recommendation. Resulting actions may delay the redelineation of some flooding sources.
- Work maps will comply with the requirements outlined in Volume 1, Section 1.4 of *Guidelines and Specifications for Flood Hazard Mapping Partners*, February 2002, which can be found at http://www.fema.gov/mit/tsd/dl_cgs.htm. The work maps should include the 1% and 0.2% annual chance floodplain boundaries, floodway limits, cross sections, BFE's, and Flood Insurance Rate Zone labels.
- Digital mapping submissions will comply with the requirements in Volume 1, Section 1.4 of *Guidelines and Specifications for Flood Hazard Mapping Partners*, February 2002, which can be found at http://www.fema.gov/mit/tsd/dl_cgs.htm.

5. Products: WDNR will make the following products available:

- Digital work maps, with 1% and 0.2% annual chance floodplain boundary delineations, regulatory floodway boundary delineations, cross sections, BFEs, zone designation labels and all applicable base map features.
- DFIRM mapping files, in one of the GIS file and database formats specified in FEMA's DFIRM Specifications.
- Metadata files describing the DFIRM data, including the required information shown in the examples shown in FEMA's DFIRM Specifications.
- Complete set of plots of DFIRM panels showing all detailed flood hazard information at a suitable scale.
- Appropriate forms from *Revisions to National Flood Insurance Program Maps, Application/Certification Forms and Instructions* (MT-2).

6. Schedule and Milestones:

Milestone 1, Planning Phase (10-01-03 to 11-30-03): Products for the first milestone to be provided to the FEMA Project Officer include:

- Documentation of the proposed source of topographic data, scale, contour interval, source/methodology, date of survey/data collection, vertical and horizontal datums, and comparison of planimetric features with the Digital FIRM base map planned for use by FEMA.
- A written assessment of the appropriateness of utilizing the FIS flood profiles for this Mapping Activity.
- Annotated copies of effective FIRMs depicting proposed floodplain revisions.

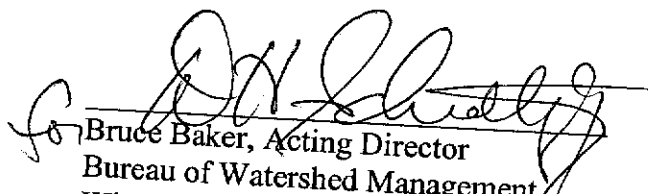
Milestone 2, Final Product (12-01-03 to 03-31-04): Final products to be provided to the FEMA Project Officer include:

- The completed TSDN and accompanying data containing the information outlined in Section 5 of this Mapping Activity Statement.

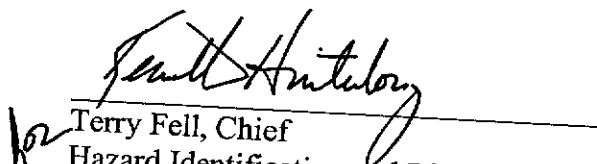
Program Performance). However, this shall not affect the financial reporting requirements (reference 44 CFR Part 13.41, *Financial Reporting*). The PO shall ensure that key WDNR staff have been provided access and passwords to MICS. The PO will also provide project-naming conventions for MICS. Once access is provided, MICS (including a tutorial) may be found at: <https://mics.fema.gov>.

12. **Points of Contact:** The CTP Project Manager is Alan Lulloff or subsequent personnel of comparable experience who are appointed to fulfill these responsibilities. Bob Watson will serve as WDNR Project Engineer for execution of this MAS. The FEMA contacts are: Ken Hinterlong, Project Officer, and Lee Traeger, Technical Monitor.

Each party has caused this Mapping Activity Statement to be executed by its duly authorized representative.


for Bruce Baker, Acting Director
Bureau of Watershed Management
Wisconsin Department of Natural Resources

9/29/03
Date


for Terry Fell, Chief
Hazard Identification and Risk Assessment Branch
Federal Emergency Management Agency, Region V

September 29, 2003
Date

Table 1

**DIGITAL FLOODPLAIN AND FLOODWAY BOUNDARIES MAPPED BY WDNR
UNDER THE BROWN COUNTY FLOODLAND MAPPING PROJECT**

Stream	Distance Along Which Floodplains and Floodways Are Mapped (miles)
ASHWAUBENON CREEK	25.0
BAIRD CREEK	3.0
BEAVER DAM CREEK	4.0
BRANCH R	2.9
DUCK CREEK	15.2
DUTCHMAN CREEK	5.3
EAST RIVER	20
EAST RIVER TRIBUTARY A	1.7
EAST RIVER TRIBUTARY B	1.0
FOX RIVER	20
LANCASTER BR	7.2
LANCASTER CR	3.4
LITTLE SUAMICO R (M BR.)	0.2
LITTLE SUAMICO R (M BRANCH)	0.2
LITTLE SUAMICO R (S BRANCH)	1.0
NESHOTA R	3.5
PLUM CR	3.4
SUAMICO RIVER	8.4
TROUT CR	7.2
Willow Crk.	9.0
Total =	141